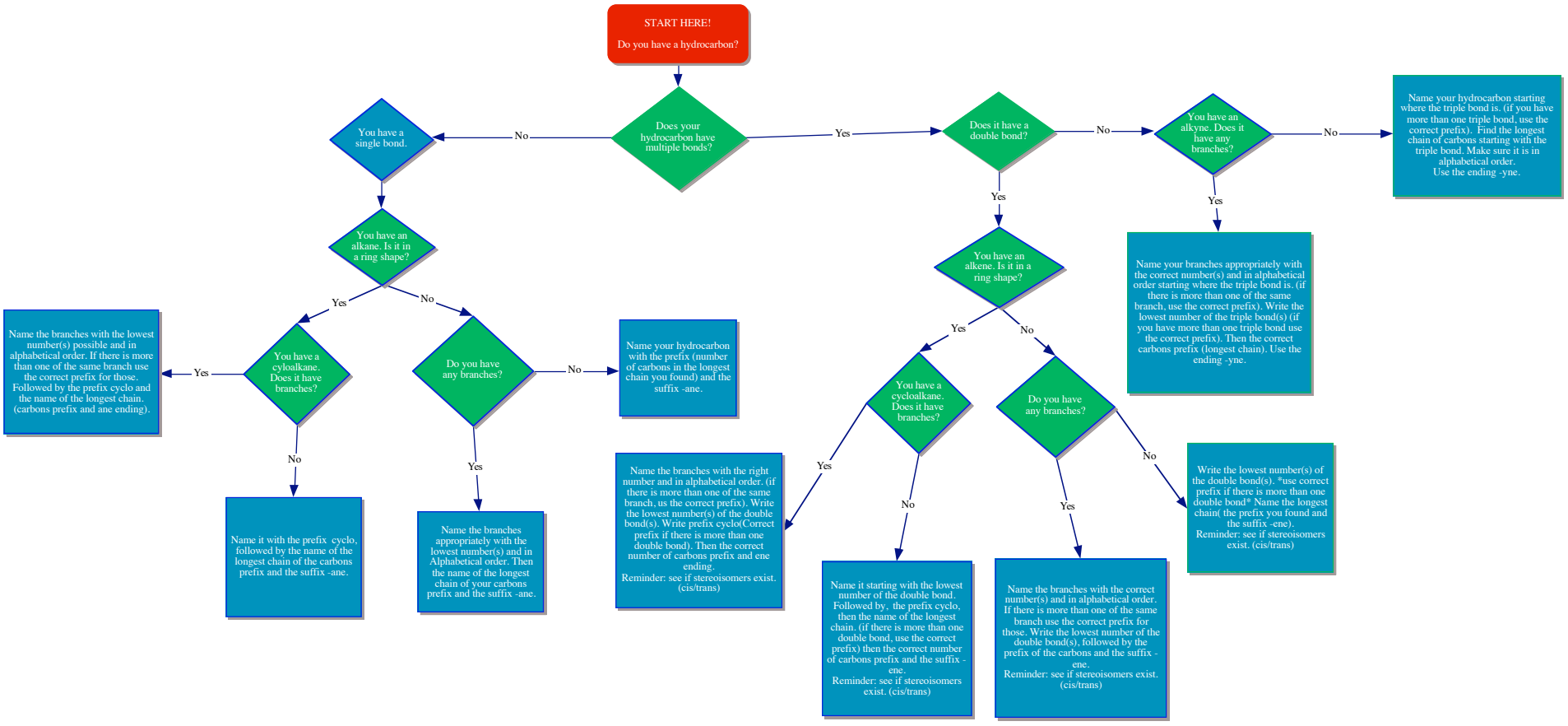
START HERE!
Do you have a hydrocarbon?
Does your hydrocarbon have multiple bonds?
No
Yes
You have a single bond.
You have an alkane. Is it in a ring shape?
Yes
No
You have a cyloalkane. Does it have branches?
Yes
No
Name the branches with the lowest number(s) possible and in alphabetical order. If there is more than one of the same branch use the correct prefix for those. Followed by the prefix cyclo and the name of the longest chain. (carbons prefix and ane ending).
Name it with the prefix cyclo, followed by the name of the longest chain of the carbons prefix and the suffix -ane.
Do you have any branches?
Yes
No
Name the branches appropriately with the lowest number(s) and in Alphabetical order. Then the name of the longest chain of your carbons prefix and the suffix -ane.
Name your hydrocarbon with the prefix (number of carbons in the longest chain you found) and the suffix -ane.
Does it have a double bond?
Yes
No
You have an alkene. Is it in a ring shape?
Yes
No
You have a cycloalkane. Does it have branches?
Yes
No
Name the branches with the right number and in alphabetical order. (if there is more than one of the same branch, us the correct prefix). Write the lowest number(s) of the double bond(s). Write prefix cyclo(Correct prefix if there is more than one double bond). Then the correct number of carbons prefix and ene ending.
Reminder: see if stereoisomers exist. (cis/trans)
Name it starting with the lowest number of the double bond. Followed by, the prefix cyclo, then the name of the longest chain. (if there is more than one double bond, use the correct prefix) then the correct number of carbons prefix and the suffix -ene.
Reminder: see if stereoisomers exist. (cis/trans)
Do you have any branches?
Yes
No
Name the branches with the correct number(s) and in alphabetical order. If there is more than one of the same branch use the correct prefix for those. Write the lowest number of the double bond(s), followed by the prefix of the carbons and the suffix -ene.
Reminder: see if stereoisomers exist. (cis/trans)
Write the lowest number(s) of the double bond(s). *use correct prefix if there is more than one double bond* Name the longest chain(the prefix you found and the suffix -ene).
Reminder: see if stereoisomers exist. (cis/trans)
You have an alkyne. Does it have any branches?
Yes
No
Name your branches appropriately with the correct number(s) and in alphabetical order starting where the triple bond is. (if there is more than one of the same branch, use the correct prefix). Write the lowest number of the triple bond(s) (if you have more than one triple bond use the correct prefix). Then the correct carbons prefix (longest chain). Use the ending -yne.
Name your hydrocarbon starting where the triple bond is. (if you have more than one triple bond, use the correct prefix). Find the longest chain of carbons starting with the triple bond. Make sure it is in alphabetical order.
Use the ending -yne.